

Marshall Blatz

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Education

University of Iowa - Iowa City, IA

B.S.E. in Computer Science and Engineering

August 2019 - May 2023

GPA: 3.49/4.0

Work Experience

Iowa Reading Research Center - Iowa City, IA

November 2021 - Present

Software Developer

- Interfaced directly with clients to gain technical clarity for quick issue resolution.
- Created web applications with React and Express, notably a platform enabling researchers to evaluate K-12 students' reading comprehension. Currently, it serves over 12,000 students across Iowa.
- Developed a data consolidation tool, enabling administrators to create custom reports, and resulting in 60% time saved.
- Built a single sign-on service for our app suite, reducing daily student sign-on time by more than 50% and maximizing the time teachers could spend on instruction.
- Designed and implemented several MySQL database schemas for multiple projects, ensuring effective data management.

RSM US - Cedar Rapids, IA

May 2022 - August 2022

Application Development Intern

- Managed multiple client projects, building ERP extensions for customers using the platform's proprietary language. Notably, developed a data import tool, resulting in streamlining credit memo creation.
- Worked with peers and supervisors in code review sessions, ensuring code quality and adherence to best practices.

Personal Projects

Jookbox: A Playlist Sharing Web Application (React, Express, Prisma)

January 2023 - June 2023

GitHub: <https://www.github.com/moorshall/jookbox>

- Architected a full-stack social media application capable of playlist sharing and music discovery.
- Integrated the Spotify and Apple Music APIs to enable account linking, playlist uploading, and playlist saving.
- Developed a custom feature to convert Apple Music playlists to Spotify playlists and vice versa.
- Implemented secure authentication mechanisms within the Express backend, utilizing JWTs to safeguard user credentials and interactions with streaming services.

Amplo: A Habit Tracking Dashboard (React, Firebase)

July 2023

GitHub: <https://www.github.com/moorshall/amplo>

- Developed a habit tracker, displaying analysis and consistency metrics.
- Created pleasant interfaces for account creation, habit addition, goal setting, real-time tracking.

Leadership Experience

Hack Iowa Student Club - Iowa City, IA

December 2020 - September 2021

Treasurer

- Led biweekly meetings where CS concepts were taught to students with all levels of experience.
- Boosted the University of Iowa attendance to nearby Midwest hackathons by 30% through organizing transportation options.

Phi Gamma Delta - Iowa City, IA

January 2020 - January 2021

Head of Recruitment

- Led a team of 6 members in planning and executing all recruitment events over a course of two semesters.
- Increased new member numbers and retainment by more than 50% compared to the previous year.

Skills

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|--|-----------------------------------|
| • JavaScript/TypeScript (React, Node.js, Jest) | • NoSQL (Firebase Firestore) |
| • HTML/CSS (Tailwind, Bootstrap) | • Google Cloud Platform |
| • PHP (Composer) | • SQL (MySQL) |
| • Java (Spring Boot) | • REST APIs |
| • Git | • Microsoft Business Central (AL) |